Re-reviewed and approved - W.R. Casey 1/5/2005

ACTIVITY DESCRIPTION		Environmental Aspects																
		Regulated Industrial Waste	Hazardous Waste	Radioactive Waste	Mixed Waste	Regulated Medical Waste	Atmospheric Discharges	Liquid Discharges	Chemical (C) Storage/Use	or Radioactive Material (R)	Water Consumption	Power Consumption	Historical Monuments / Cultural Resources	Sensitive/Endangered Species and Sensitive Habitats	Env. Noise	Historical Contamination	Soil Activation	Comments
Title	Number								C	R								
Mixed resin bed regeneration	NSLS-461-MRB	a	a					b	b,f		x	x						System backflow devices tested and maintained by Plant Engineering's (PE) O&M System
Machine shop operations	NSLS-462-MS	a	a				b	b	f		x	x						
Photographic dark room	NSLS-463-PO	a	a				x	b	f		x	x						
Vacuum system maintenance	NSLS-470-VSM	a	a					b	f			x						
Electrical/Mechanical equipment maintenance	NSLS-466-EMM	a	a				x	b	a, d, f		x	x						
Experimental program	NSLS-467-GCO	a	a	a	a		x	b	f	x	x	x						Includes glassware cleaning
Cooling Water System	NSLS-469-CWS	a					x	b	f		x	x						
Haz Stor shed							x		f	x								
Silicon Crystal Etching & Cutting	NSLS-591-CE	a	a				x		f		x	x						
General facility operation									b,f		x	x					a	Soil activation calculated, but never exceeds action levels as per Accelerator Safety subject area.
Administration											x	x						

Note:
1. A blank cell indicates that the aspect is not present.
2. An x in a cell indicates that the aspect is present, but is not significant.
3. A letter other than x indicates that the aspect is significant.
   (The letter refers to the specific criteria for the aspect which has been met.)
   See Key:

NSLS Environmental Aspect Identification:

Revision 04	12/19/2000
Revision 05	05/15/2002
Revision 06	12/31/2002
Revision 07	11/13/2003

Review Guidance

Definitions are taken directly from the "Identification of Significant Environmental Aspects and Impacts" Subject Area

Any generation of the below waste streams will be coded with an "a":
Industrial Waste, Hazardous, Radioactive , Mixed, Medical Waste

Atmospheric Discharge
a) Any process that requires a point source air permit or inclusion in the Title V permit as an emissions unit, or contributes to a regulated emission point.
b) Operations or activities that use engineering controls to reduce hazardous air pollutant or radionuclide emissions.

Liquid Discharge
a) Radionuclides that are detectable at the point of discharge from the facility.
b) Discharges of any of the chemicals listed on the BNL State Pollutant Discharge Elimination System (SPDES) Permit Chemicals exhibit.
c) Operations or activities that use engineering controls to reduce the quantity or concentration of pollutant.
d) Existence of underground injection control devices under the responsibility of the owner organization as specified in the Underground Injection Control subject area.

Chemical Storage/Use or Radioactive Material
a) Storage or use of chemicals or radioactive materials requiring engineering controls specified in the Storage and Transfer of Hazardous Materials subject area.
b) System configuration requires back-flow prevention.
c) Transportation of chemicals or dispersible radioactive materials.
d) Storage or use of PCBs as specified in the Oils/PCB Management subject area.
e) Any underground pipes or ducts that contain chemical and/or radioactive material/contamination.
f) Storage or use in quantities capable of resulting in a spill, as defined in the Spill Response Subject Area.

Water Consumption
a) Total organizational water consumption greater than 650,000 gal/day.
b) Continuous (24/hrs/day), permanent (to continue for the foreseeable future) once-through water use grater than 4 gpm that discharges to the sanitary sewer system.
c) Daily (8 hrs/day), permanent, once-through water use greater than 10 gpm that discharges to the sanitary sewer system.

Power Consumption
a) Total Organizational Power Consumption Greater than 58 M KWh/yr.

Environmental Noise
a) Exceed ordinance levels [7am-10pm: 55 dba; 10pm-7am: 50 dba (20 min. average)] at property boundary of off-site location.